

SAYAN PAUL

Kolkata, West Bengal, India | +91 7003671562 | sayanpaul717@gmail.com
[linkedin.com/in/imsayanpaul](https://www.linkedin.com/in/imsayanpaul) | github.com/imsayanpaul

PROFESSIONAL SUMMARY

Full-stack JavaScript developer who builds responsive web applications with React, Node.js and Express, backed by relational databases. Shipped three live projects end to end, including a job search platform with 67 early users. Comfortable with RESTful APIs, Git, CI/CD, writing tests and integrating AI/LLM features safely into real products.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript (ES6+), Python, SQL
- **Frontend Technologies:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, Responsive Design
- **Backend Technologies:** Node.js, Express.js, FastAPI, RESTful APIs, Webhooks, WebSockets
- **Databases:** PostgreSQL, MySQL, MongoDB, Supabase
- **AI & LLM Integration:** Google Gemini, Groq (Whisper, LLaMA 3.3), Prompt Engineering, Multi-model Fallbacks
- **Core Concepts:** Data Structures & Algorithms, Caching, Rate Limiting, Row-Level Security, Web Security (SSRF, IDOR)
- **Tools & DevOps:** Git, GitHub, GitHub Actions (CI/CD), Docker, Vercel, Render, pytest

WORK EXPERIENCE

Indian Institute of Internship, Kolkata Jun 2025 – Sep 2025
AI/ML Intern

- Implemented supervised and unsupervised machine learning algorithms in Python for predictive modeling, working in team sprints on data preprocessing and model evaluation.
- Developed the “**AI Interview**” capstone project to predict candidate selection outcomes via facial, speech, and cognitive response analysis.

PROJECTS

Appliq | AI Job Search & Career Assistant [Live Demo] | [GitHub]
React 19, Express 5, Supabase (PostgreSQL), Gemini, Groq, JSearch API, Resend, GitHub Actions

- Built a full-stack job search platform that pulls live jobs from LinkedIn, Indeed, Glassdoor and Naukri, with AI fit scores, cover letters and an application tracker; **67 users** in early access.
- Designed an honest AI writing pipeline: Gemini drafts, Groq reviews, and code blocks any skill or number that isn't in the user's profile.
- Built hash-keyed caching for search and AI results, and Postgres-backed rate limiting with Row-Level Security to control API costs.
- Fixed AI job ranking that always failed by numbering jobs instead of using long job IDs; added daily job alerts with GitHub Actions and **15 unit tests** in CI.

ReelDex | AI Second Brain for Instagram Reels [Live Demo] | [GitHub]
React, Python (FastAPI), PostgreSQL, Meta Graph API Webhooks, Groq (Whisper, LLaMA), Docker, pytest

- Built an app where users DM an Instagram reel and get an AI summary back, with a React dashboard to search, filter and organise saved reels.
- Integrated Meta Graph API webhooks with a FastAPI backend that transcribes audio (Whisper) and summarises it with LLaMA; deployed with Docker on Render and Vercel.
- Audited the API and fixed security gaps (IDOR, unsigned webhooks) and a duplicate-save race condition; covered by **59 pytest tests** in CI.

Repo2Resume | Resume Bullets from GitHub Repositories [Live Demo] | [GitHub]
React, Vite, Vercel Serverless Functions, Groq, Gemini, GitHub REST API

- Built a tool that reads a GitHub repo's README, dependencies and commit history and generates resume bullets with Groq, falling back to Gemini.
- Built a .docx export that inserts projects into an uploaded Word resume by editing its XML directly, with working hyperlinks, plus LaTeX and Markdown export.
- Added checks that verify every number the AI writes against the repo, and fixed a skill matcher that confused “Java” with “JavaScript”.

EDUCATION

Guru Nanak Institute of Technology, Panihati 2023 – 2027 (Expected)
Bachelor of Computer Applications (BCA) | **CGPA: 7.64**
Higher Secondary (CBSE) – Bholananda National Vidyalaya, Barrackpore 2023
Secondary (ICSE) – St. Xavier's Institution, Panihati 2021

CERTIFICATIONS & LANGUAGES

Gen AI Tools – NASSCOM IT-ITES SSC Jul 2026 – Aug 2026
Languages: English (Proficient), Hindi (Proficient), Bengali (Native)